

**Table 1C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Demographic Indicators** (2)

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Total Records	Number	%	Source of Data	Number	%
Complete Records	47,618	68.5	WIC	69,465	100.0
Prenatal Records	9,358	13.5	Maternal Health	0	0.0
Postpartum Records	12,489	18.0	Other	0	0.0
<b>Total Records Accepted</b>	<b>69,465</b>		<b>Total</b>	<b>69,465</b>	<b>100.0</b>
			<i>Excluded Unknown: 0</i>	<i>0.0</i>	

Race/Ethnic Distribution	Number	%	Age Distribution	Number	%	Education Distribution	Number	%
White, Not Hispanic	39,652	57.5	< 15 Years	186	0.3	< High School	18,875	27.8
Black, Not Hispanic	18,912	27.4	15 - 17 Years	4,210	6.1	High School	30,585	45.1
Hispanic	7,316	10.6	18 - 19 Years	9,046	13.1	> High School	18,348	27.1
American Indian/Alaska Native	220	0.3	20 - 29 Years	41,973	60.6	<b>Total</b>	<b>67,808</b>	<b>100.0</b>
Asian/Pacific Islander	1,149	1.7	30 - 39 Years	12,908	18.6	<i>Excluded Unknown: 1,657</i>	<i>2.4</i>	
Multiple Races	1,763	2.6	>= 40 Years	957	1.4			
All Other	0	0.0	<b>Total</b>	<b>69,280</b>	<b>100.0</b>			
<b>Total</b>	<b>69,012</b>	<b>100.0</b>	<i>Excluded Unknown: 185</i>	<i>0.3</i>				
<i>Excluded Unknown: 453</i>	<i>0.7</i>							

% Poverty Level	Number	%	Program Participation (3)	Number	%	Migrant Status	Number	%
0 - 50	19,988	36.3	WIC	56,976	100.0	Yes	1,039	1.5
51 - 100	14,029	25.5	SNAP	56,768	44.5	No	68,426	98.5
101 - 130	5,415	9.8	Medicaid	56,691	73.9	<b>Total</b>	<b>69,465</b>	<b>100.0</b>
131 - 150	2,908	5.3	TANF	56,773	14.9	<i>Excluded Unknown: 0</i>	<i>0.0</i>	
151 - 185	3,407	6.2	<i>Excluded Unknown:</i>					
186 - 200	845	1.5	WIC:	0	0.0			
> 200	3,342	6.1	SNAP:	208	0.4			
Adjunctive Eligibility	5,080	9.2	Medicaid:	285	0.5			
<b>Total</b>	<b>55,014</b>	<b>100.0</b>	TANF:	203	0.4			
<i>Excluded Unknown: 1,962</i>	<i>3.4</i>							

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Prenatal program participation.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 2C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Health Indicators**

Summary of Health Indicators (2)				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Prepregnancy BMI (3)				
Underweight	64,771	4.2	1,224,766	4.7
Normal Weight	64,771	41.6	1,224,766	43.1
Overweight	64,771	24.9	1,224,766	25.7
Obese	64,771	29.3	1,224,766	26.4
Maternal Weight Gain (4)				
Less Than Ideal	50,312	21.8	963,624	21.4
Ideal	50,312	28.8	963,624	30.3
Greater Than Ideal	50,312	49.4	963,624	48.2
Anemia (Low Hb/Hct) (5)				
1st Trimester	19,644	9.1	394,095	7.6
2nd Trimester	19,918	14.6	354,690	12.1
3rd Trimester	9,832	36.8	188,530	33.8
Postpartum	13,734	27.6	416,710	29.6
Parity (6)				
0	68,796	38.5	1,149,553	42.6
1	68,796	26.8	1,149,553	26.4
2	68,796	18.1	1,149,553	16.0
≥ 3	68,796	16.6	1,149,553	14.9
Interpregnancy Interval				
< 6 Months	37,843	13.4	618,788	12.6
6 - <18 Months	37,843	28.4	618,788	27.1
≥18 Months	37,843	58.2	618,788	60.3
Gestational Diabetes	53,787	6.3	346,704	4.4
Hypertension During Pregnancy	53,822	10.2	395,960	5.2

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

(6) Number of times a woman has given birth to an infant 20 or more weeks gestation.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 2C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Health Indicators**

Summary of Health Indicators (2)				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Medical Care				
1st Trimester	58,275	86.8	580,485	80.1
No Care	58,275	1.0	580,485	3.1
WIC Enrollment				
1st Trimester	68,253	32.5	1,187,387	31.7
2nd Trimester	68,253	33.5	1,187,387	34.0
3rd Trimester	68,253	16.6	1,187,387	18.4
Postpartum (3)	68,253	17.4	1,187,387	16.0
Prepregnancy Multivitamin Consumption (4)	27,982	18.0	266,567	19.3
Multivitamin Consumption During Pregnancy (5)	32,637	85.5	269,548	80.6
Smoking				
3 Months Prior to Pregnancy	54,868	35.8	999,199	23.1
During Pregnancy	51,992	21.1	926,915	14.2
Last 3 Months of Pregnancy	59,246	19.3	856,953	14.2
Postpartum	59,024	19.7	839,512	16.1
Smoking Changes (6)				
Quit Smoking by First Prenatal Visit	18,277	40.6	193,938	42.1
Quit Smoking by First Prenatal Visit and Stayed Off Cigarettes	14,749	35.2	146,933	35.5
Smoking in Household				
During Pregnancy	32,394	17.0	655,095	18.9
Postpartum	54,663	6.5	578,852	19.9
Drinking				
3 Months Prior to Pregnancy	54,655	25.9	975,737	7.8
Last 3 Months of Pregnancy	55,194	0.2	701,124	0.4

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Women who initially enrolled in WIC during the postpartum period.

(4) Women who reported taking a multivitamin four times a week or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

(6) Among women who smoked 3 months prior to pregnancy.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 2C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Health Indicators**

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Summary of Health Indicators (2)				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Birthweight (3)				
Very Low	55,121	1.3	1,085,134	1.1
Low	55,121	7.2	1,085,134	7.1
Normal	55,121	84.5	1,085,134	85.2
High	55,121	7.1	1,085,134	6.6
Preterm (4)	57,774	11.5	1,025,278	11.5
Full term Low Birth Weight (5)	48,299	3.5	890,981	3.6
Multiple Births	53,622	1.9	1,060,021	1.4
Breastfeeding				
Ever Breastfed	55,786	57.2	952,980	65.4

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Very low birth weight (<1500 g), low birth weight (1500 - <2500 g), normal birth weight (2500 - <4000 g), high birth weight (>4000 g).

(4) <37 weeks gestation.

(5) 37 or more weeks gestation and <2500 g.



**Table 3C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Racial and Ethnic Distribution by Contributor to Nation**

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<b>Comparison of Racial and Ethnic Distribution</b> (2)								
	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
<b>Michigan</b>	<b>69,465</b>	<b>57.1</b>	<b>27.2</b>	<b>10.5</b>	<b>0.3</b>	<b>1.7</b>	<b>2.5</b>	<b>0.7</b>
<b>Nation (Prior Year)</b>	<b>1,307,887</b>	<b>42.0</b>	<b>24.2</b>	<b>28.1</b>	<b>1.0</b>	<b>3.1</b>	<b>1.1</b>	<b>0.5</b>

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 4C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Age Distribution by Contributor to Nation**

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<b>Comparison of Age Distribution</b> (2)								
	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
<b>Michigan</b>	<b>69,465</b>	<b>0.3</b>	<b>6.1</b>	<b>13.0</b>	<b>60.4</b>	<b>18.6</b>	<b>1.4</b>	<b>0.3</b>
<b>Nation (Prior Year)</b>	<b>1,307,887</b>	<b>0.3</b>	<b>6.3</b>	<b>12.6</b>	<b>59.7</b>	<b>19.4</b>	<b>1.4</b>	<b>0.3</b>

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 5C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Maternal Health Indicators by Contributor to Nation**

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Comparison of Maternal Health Indicators (2)																
	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy			
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum							
	Number	%	%	Number	%	%	Number	%		%	Number	%	Number	%		
Michigan	64,771	4.2	54.2	50,312	21.8	49.4	9,832	36.8		27.6	13,734		53,787	6.3	53,822	10.2
Nation (Prior Year)	1,224,766	4.7	52.1	963,624	21.4	48.2	188,530	33.8		29.6	416,710		346,704	4.4	395,960	5.2

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 6C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Maternal Behavioral Indicators by Contributor to Nation**

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Comparison of Maternal Behavioral Indicators										(2)
	Medical Care			WIC Enrollment		Multivitamin Consumption				
	1st Trimester		No Care	1st Trimester		Pregpregnancy (3)		During Pregnancy (4)		
	Number	%	%	Number	%	Number	%	Number	%	
Michigan	58,275	86.8	1.0	68,253	32.5	27,982	18.0	32,637	85.5	
Nation (Prior Year)	580,485	80.1	3.1	1,187,387	31.7	266,567	19.3	269,548	80.6	

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Women who reported taking a multivitamin four times a week or more in the month before pregnancy; proxy for folic acid consumption.

(4) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.





**Table 7C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Smoking Indicators by Contributor to Nation**

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Comparison of Smoking Indicators (2)										
	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	%	Number	%	Number	%	Number	%	Number	%
Michigan	54,868	35.8	59,246	19.3	14,749	35.2	32,394	17.0	54,663	6.5
Nation (Prior Year)	999,199	23.1	856,953	14.2	146,933	35.5	655,095	18.9	578,852	19.9

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Among women who smoked 3 months prior to pregnancy.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 8C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Comparison of Infant Health Indicators by Contributor to Nation**

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<b>Comparison of Infant Health Indicators</b> (2)								
	Birthweight			Preterm (5)	Full Term LBW (6)	Ever Breastfed		
	Low (3)		High (4)					
	Number	%	%	Number	%	Number	%	
<b>Michigan</b>	<b>55,121</b>	<b>8.4</b>	<b>7.1</b>	<b>57,774</b>	<b>11.5</b>	<b>48,299</b>	<b>3.5</b>	<b>55,786</b> <b>57.2</b>
<b>Nation (Prior Year)</b>	<b>1,085,134</b>	<b>8.2</b>	<b>6.6</b>	<b>1,025,278</b>	<b>11.5</b>	<b>890,981</b>	<b>3.6</b>	<b>952,980</b> <b>65.4</b>

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 9C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**

**Maternal Health Indicators by Race/Ethnicity, Age, or Education**

Maternal Health Indicators by Race/Ethnicity, Age, or Education												(2)		
	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)				Gestational Diabetes		Hypertension During Pregnancy	
	Under- weight	Over- weight		< Ideal	> Ideal	3rd Trimester		Postpartum						
	Number	%	%	Number	%	%	Number	%	Number	%	Number	%	Number	%
Race/Ethnicity														
White, Not Hispanic	37,356	4.7	51.8	28,830	20.8	50.9	5,273	27.9	8,396	21.0	30,282	6.4	30,295	9.9
Black, Not Hispanic	17,863	3.6	59.1	14,090	20.7	50.2	3,304	50.7	3,566	42.7	15,039	5.3	15,055	13.1
Hispanic	6,617	2.4	59.4	5,141	28.5	40.8	796	37.1	1,153	28.1	6,080	7.7	6,080	6.0
American Indian/Alaska Native	205	3.4	58.0	170	21.8	54.7	23	*	38	*	138	9.4	138	9.4
Asian/Pacific Islander	1,055	9.9	27.7	781	32.5	30.6	160	32.5	225	25.3	880	9.2	889	3.3
Multiple Races	1,669	3.8	50.6	1,298	21.6	52.6	274	44.2	353	31.4	1,362	5.1	1,359	9.9
All Other/Unknown	6	*	*	2	*	*	2	*	3	*	6	*	6	*
Total	64,771	4.2	54.2	50,312	21.8	49.4	9,832	36.8	13,734	27.6	53,787	6.3	53,822	10.2
Age														
< 15 Years	177	7.3	22.6	133	27.1	45.9	29	*	20	*	140	0.7	141	10.6
15 - 17 Years	3,963	6.8	34.0	3,041	24.2	47.3	574	47.6	668	36.1	3,223	1.6	3,223	9.4
18 - 19 Years	8,516	6.2	41.4	6,550	20.3	51.4	1,280	42.3	1,553	35.5	6,940	2.2	6,931	10.2
20 - 29 Years	39,079	4.3	55.1	30,566	21.1	50.3	6,122	35.4	8,222	26.7	32,575	5.5	32,607	9.3
30 - 39 Years	11,988	2.0	66.5	9,272	23.9	46.7	1,676	34.2	3,036	24.4	10,060	12.4	10,072	13.1
>= 40 Years	877	2.1	67.5	638	27.4	40.3	116	34.5	235	24.3	719	17.5	718	17.0
Unknown	171	0.6	56.7	112	17.9	56.3	35	*	0	*	130	10.0	130	12.3
Total	64,771	4.2	54.2	50,312	21.8	49.4	9,832	36.8	13,734	27.6	53,787	6.3	53,822	10.2
Education														
< High School	17,570	5.4	49.0	13,200	25.1	46.1	2,528	42.9	3,260	33.3	14,473	5.1	14,470	8.9
High School	28,880	4.2	55.2	22,472	21.1	50.2	4,299	36.8	5,742	28.2	23,641	6.3	23,666	10.4
> High School	17,324	3.2	57.8	13,912	19.5	51.6	2,831	31.4	4,524	22.6	14,772	7.2	14,781	11.2
Unknown	997	4.3	53.2	728	24.7	45.1	174	37.9	208	32.2	901	8.0	905	10.2
Total	64,771	4.2	54.2	50,312	21.8	49.4	9,832	36.8	13,734	27.6	53,787	6.3	53,822	10.2

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 10C**  
**2009 Pregnancy Nutrition Surveillance**  
**Michigan**  
**Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education**

(1)

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<b>Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education</b> <sup>(2)</sup>									
	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Pregnancy (3)		During Pregnancy (4)	
	Number	%	%	Number	%	Number	%	Number	%
<b>Race/Ethnicity</b>									
White, Not Hispanic	33,316	90.6	1.0	38,987	36.8	16,227	20.7	18,211	87.2
Black, Not Hispanic	15,976	79.9	0.8	18,594	21.6	7,260	13.1	9,112	85.6
Hispanic	6,335	85.2	1.2	7,153	39.8	3,199	15.2	3,807	78.1
American Indian/Alaska Native	192	87.5	2.6	216	38.9	56	*	68	*
Asian/Pacific Islander	948	86.0	0.8	1,131	27.7	485	18.6	581	82.3
Multiple Races	1,502	84.0	1.2	1,734	34.3	755	19.3	858	85.4
All Other/Unknown	6	*	*	438	1.6	0	*	0	*
<b>Total</b>	<b>58,275</b>	<b>86.8</b>	<b>01.0</b>	<b>68,253</b>	<b>32.5</b>	<b>27,982</b>	<b>18.0</b>	<b>32,637</b>	<b>85.5</b>
<b>Age</b>									
< 15 Years	154	56.5	0.6	185	30.3	81	*	99	*
15 - 17 Years	3,515	75.5	1.5	4,136	34.6	1,764	7.1	2,132	83.9
18 - 19 Years	7,534	83.1	1.1	8,873	35.1	3,866	9.6	4,598	83.5
20 - 29 Years	35,338	88.1	1.0	41,280	32.0	16,799	18.4	19,524	85.7
30 - 39 Years	10,848	89.5	0.8	12,662	31.9	4,993	26.4	5,738	86.8
>= 40 Years	756	86.1	0.8	933	32.9	375	30.1	420	88.1
Unknown	130	81.5	2.3	184	19.0	104	16.3	126	96.8
<b>Total</b>	<b>58,275</b>	<b>86.8</b>	<b>01.0</b>	<b>68,253</b>	<b>32.5</b>	<b>27,982</b>	<b>18.0</b>	<b>32,637</b>	<b>85.5</b>
<b>Education</b>									
< High School	15,598	80.6	1.3	18,498	34.3	7,558	11.0	9,132	80.2
High School	25,833	87.8	0.9	30,052	34.0	12,067	16.8	14,018	85.8
> High School	15,938	91.5	0.8	18,082	29.7	7,953	26.5	8,950	90.7
Unknown	906	83.4	1.3	1,621	16.5	404	18.8	537	83.8
<b>Total</b>	<b>58,275</b>	<b>86.8</b>	<b>01.0</b>	<b>68,253</b>	<b>32.5</b>	<b>27,982</b>	<b>18.0</b>	<b>32,637</b>	<b>85.5</b>

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for behavioral indicators, and data with errors for behavioral and demographic indicators.

(3) Women who reported taking a multivitamin four times a week or more in the month before pregnancy; proxy for folic acid consumption.

(4) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 11C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Smoking Indicators by Race/Ethnicity, Age, or Education**

Smoking Indicators by Race/Ethnicity, Age, or Education (2)										
	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
Race/Ethnicity										
White, Not Hispanic	31,886	46.4	33,837	25.8	11,044	32.3	18,069	18.8	30,857	6.2
Black, Not Hispanic	14,403	21.9	16,157	11.0	2,383	43.5	9,055	18.2	15,177	8.5
Hispanic	6,109	14.5	6,554	6.4	717	54.3	3,780	7.3	6,183	2.8
American Indian/Alaska Native	175	52.6	191	34.6	55	*	67	*	140	5.7
Asian/Pacific Islander	856	7.6	971	4.0	49	*	570	5.3	907	3.0
Multiple Races	1,438	43.9	1,529	24.6	501	32.5	852	18.8	1,392	8.9
All Other/Unknown	1	*	7	*	0	*	1	*	7	*
Total	54,868	35.8	59,246	19.3	14,749	35.2	32,394	17.0	54,663	6.5
Age										
< 15 Years	161	13.0	157	3.8	15	*	98	*	143	15.4
15 - 17 Years	3,601	27.7	3,580	14.4	749	40.2	2,108	31.8	3,299	13.4
18 - 19 Years	7,685	38.5	7,660	18.6	2,223	40.5	4,564	26.9	7,084	9.3
20 - 29 Years	32,908	38.2	35,915	20.7	9,537	34.9	19,392	14.9	33,088	5.6
30 - 39 Years	9,682	29.4	11,021	17.0	2,075	29.2	5,684	11.0	10,195	5.1
>= 40 Years	689	26.6	781	16.0	124	21.8	422	10.9	723	4.4
Unknown	142	31.0	132	12.9	26	*	126	17.5	131	8.4
Total	54,868	35.8	59,246	19.3	14,749	35.2	32,394	17.0	54,663	6.5
Education										
< High School	15,536	39.8	15,955	25.0	4,526	26.9	9,056	22.4	14,751	8.9
High School	24,766	38.3	26,245	20.2	7,161	36.1	13,906	17.7	24,007	6.6
> High School	13,857	27.4	16,075	12.1	2,940	45.6	8,899	10.5	14,988	4.0
Unknown	709	25.0	971	16.7	122	35.2	533	17.4	917	6.5
Total	54,868	35.8	59,246	19.3	14,749	35.2	32,394	17.0	54,663	6.5

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for smoking indicators, and data with errors for smoking and demographic indicators.

(3) Among women who smoked 3 months prior to pregnancy.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 12C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Infant Health Indicators by Race/Ethnicity, Age, or Education**

Infant Health Indicators by Race/Ethnicity, Age, or Education (2)									
	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
	Low (3)	High (4)							
	Number	%	%	Number	%	Number	%	Number	%
Race/Ethnicity									
White, Not Hispanic	31,295	7.0	8.5	32,698	10.3	27,844	2.8	31,700	62.5
Black, Not Hispanic	15,165	12.4	4.0	15,776	14.8	12,785	5.5	15,254	42.8
Hispanic	6,045	5.8	7.8	6,339	10.4	5,349	2.5	6,167	63.8
American Indian/Alaska Native	176	7.4	10.2	187	9.1	158	4.4	178	59.6
Asian/Pacific Islander	889	8.7	4.0	944	10.0	799	5.0	905	68.5
Multiple Races	1,406	8.4	7.6	1,476	10.8	1,242	3.9	1,418	58.0
All Other/Unknown	145	10.3	6.9	354	7.1	122	1.6	164	57.9
Total	55,121	8.4	7.1	57,774	11.5	48,299	3.5	55,786	57.2
Age									
< 15 Years	142	9.2	4.9	152	15.8	118	3.4	142	32.4
15 - 17 Years	3,338	8.0	4.6	3,495	12.6	2,885	4.2	3,364	45.6
18 - 19 Years	7,212	7.4	5.0	7,499	11.9	6,269	4.1	7,287	51.7
20 - 29 Years	33,545	6.7	7.2	35,184	10.6	29,724	3.3	33,941	58.2
30 - 39 Years	10,095	8.0	8.9	10,601	13.7	8,628	3.6	10,248	61.5
>= 40 Years	665	8.4	9.5	713	15.1	563	4.4	678	63.3
Unknown	124	14.5	7.3	130	10.0	112	8.9	126	58.7
Total	55,121	8.4	7.1	57,774	11.5	48,299	3.5	55,786	57.2
Education									
< High School	14,643	7.8	5.8	15,447	12.8	12,613	4.2	14,837	45.9
High School	24,390	7.1	7.1	25,401	11.1	21,477	3.5	24,640	55.0
> High School	15,059	6.5	8.3	15,614	11.0	13,316	3.0	15,232	71.9
Unknown	1,029	8.3	7.9	1,312	10.5	893	4.5	1,077	54.8
Total	55,121	8.4	7.1	57,774	11.5	48,299	3.5	55,786	57.2

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 13C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Maternal Weight Gain and Birth Outcomes by Select Health Indicators**

<b>Maternal Weight Gain and Birth Outcomes by Select Health Indicators</b> (2)										
	Weight Gain (3)			Birth Outcomes						
	< Ideal	> Ideal		Birthweight			Preterm (6)		Full Term LBW (7)	
				Low (4)		High (5)				
	Number	%	%	Number	%	%	Number	%	Number	%
<b>Prepregnancy BMI</b>										
Underweight	2,121	33.4	24.9	2,138	14.3	3.0	2,226	15.0	1,796	7.3
Normal Weight	21,109	25.7	39.9	21,550	8.8	5.1	22,434	11.2	18,971	4.0
Overweight	12,624	14.1	61.2	13,000	7.6	7.8	13,550	11.2	11,456	3.0
Obese	14,458	21.0	56.7	15,154	7.6	9.8	15,787	11.8	13,236	2.8
<b>Weight Gain</b>										
< Ideal	-	-	-	9,596	13.7	3.9	10,213	15.3	8,054	6.0
Ideal	-	-	-	13,726	8.6	4.5	14,207	11.7	12,004	3.6
> Ideal	-	-	-	23,713	6.0	9.9	24,474	9.5	21,279	2.5
<b>Smoking During Pregnancy</b>										
Smokers	7,581	22.6	49.4	8,164	10.8	4.5	8,482	12.9	7,075	5.3
Non-Smokers	29,115	21.8	49.3	32,277	7.2	7.8	33,345	11.5	28,432	2.8

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight pre-pregnancy (ideal weight gain = 25 to 35 pounds), overweight pre-pregnancy (ideal weight gain = 15 to 25 pounds), obese pre-pregnancy (ideal weight gain = 11 to 20 pounds).

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 14C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Racial and Ethnic Distribution**

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Summary of Trends in Racial and Ethnic Distribution (2)								
Year	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
2009	69,465	57.1	27.2	10.5	0.3	1.7	2.5	0.7
2008	68,879	56.8	27.7	10.7	0.3	1.6	2.7	0.2
2007	65,261	56.8	28.2	11.2	0.3	1.5	2.0	0.0
2006	61,946	56.3	28.1	11.5	0.4	1.7	1.9	0.0
2005	65,212	55.4	27.3	11.3	0.5	1.7	0.0	3.8
2004	64,160	59.2	28.6	10.0	0.5	1.6	0.0	0.1
2003	61,040	59.8	28.1	10.1	0.5	1.5	0.0	0.0
2002	59,234	59.4	28.8	10.0	0.5	1.3	0.0	0.0
2001	61,122	59.0	29.3	10.0	0.5	1.1	0.0	0.0
2000	62,088	59.1	29.8	9.5	0.5	1.1	0.0	0.0
1999	57,354	60.5	29.7	8.1	0.5	1.1	0.0	0.0
1998	61,824	61.6	29.9	6.9	0.5	1.1	0.0	0.0
1997	58,796	61.7	30.5	6.2	0.5	1.2	0.0	0.0
1996	59,794	62.5	29.5	6.3	0.5	1.2	0.0	0.0
1995	42,765	63.2	29.3	5.9	0.5	1.1	0.0	0.0
1994	60,846	59.5	28.9	5.0	0.5	0.9	0.0	5.3
1993	0	*	*	*	*	*	*	*
1992	36,204	49.7	22.6	3.3	0.4	0.6	0.0	23.3
1991	5,920	62.1	32.1	4.3	0.7	0.7	0.0	0.1
1990	527	33.8	63.8	1.9	0.2	0.2	0.0	0.2
1989	0	*	*	*	*	*	*	*

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.





**Table 14C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Racial and Ethnic Distribution**

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Summary of Trends in Racial and Ethnic Distribution (2)								
Year	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
1988	0	*	*	*	*	*	*	*
1987	0	*	*	*	*	*	*	*
1986	0	*	*	*	*	*	*	*
1985	0	*	*	*	*	*	*	*
1984	0	*	*	*	*	*	*	*
1983	495	11.1	82.4	1.8	0.0	0.6	0.0	4.0

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 15C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Age Distribution**

<b>Summary of Trends in Age Distribution</b> (2)								
Year	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
2009	69,465	0.3	6.1	13.0	60.4	18.6	1.4	0.3
2008	68,879	0.3	6.6	13.0	60.4	18.3	1.2	0.1
2007	65,261	0.4	7.0	13.5	60.4	17.5	1.2	0.0
2006	61,946	0.4	7.1	13.2	60.8	17.4	1.2	0.0
2005	65,212	0.4	6.8	12.9	60.7	17.9	1.3	0.0
2004	64,160	0.5	7.0	13.3	60.4	17.4	1.2	0.0
2003	61,040	0.4	7.2	13.4	60.3	17.5	1.2	0.0
2002	59,234	0.5	7.3	13.6	60.1	17.3	1.2	0.0
2001	61,122	0.5	7.8	14.4	59.5	16.7	1.1	0.0
2000	62,088	0.6	8.2	14.8	59.7	15.8	1.0	0.0
1999	57,354	0.7	8.6	15.1	59.0	15.6	1.0	0.0
1998	61,824	0.6	9.0	15.4	58.6	15.4	1.0	0.0
1997	58,796	0.7	9.3	15.2	58.2	15.7	0.9	0.0
1996	59,794	0.8	9.8	15.1	57.7	15.7	0.8	0.0
1995	42,765	0.9	10.3	15.2	57.4	15.4	0.8	0.0
1994	60,846	0.8	9.6	14.6	55.0	14.2	0.6	5.3
1993	0	*	*	*	*	*	*	*
1992	36,204	0.5	7.0	12.4	46.1	10.6	0.4	23.1
1991	5,920	0.5	8.1	14.8	61.8	14.2	0.6	0.1
1990	527	1.1	10.4	17.5	56.5	14.4	0.0	0.0

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 15C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Age Distribution**

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<b>Summary of Trends in Age Distribution</b> (2)								
Year	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
1989	0	*	*	*	*	*	*	*
1988	0	*	*	*	*	*	*	*
1987	0	*	*	*	*	*	*	*
1986	0	*	*	*	*	*	*	*
1985	0	*	*	*	*	*	*	*
1984	0	*	*	*	*	*	*	*
1983	495	1.4	11.3	18.8	57.6	9.5	0.4	1.0

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 16C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Maternal Health Indicators**

Summary of Trends in Maternal Health Indicators (2)										
Year	Pregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
	Number	%	%	Number	%	%	Number	%	Number	%
2009	64,771	4.2	54.2	50,312	21.8	49.4	9,832	36.8	13,734	27.6
2008	61,530	4.3	53.7	50,428	27.5	47.1	7,153	33.4	15,327	32.4
2007	60,363	4.5	52.9	49,545	26.9	47.9	10,307	33.0	13,389	35.9
2006	57,082	4.6	52.7	47,352	26.1	49.1	9,715	30.6	13,699	34.4
2005	59,933	4.7	52.1	50,558	25.8	48.6	10,283	31.2	13,786	35.0
2004	58,873	4.8	51.7	49,556	26.0	48.9	10,643	30.4	14,448	35.1
2003	56,040	5.2	51.0	46,960	26.9	48.6	10,111	30.1	13,318	35.4
2002	54,233	5.4	50.3	44,928	28.9	46.3	9,663	30.9	13,117	36.3
2001	55,825	5.6	49.4	44,935	30.2	45.3	10,543	30.0	13,475	36.3
2000	55,640	6.1	48.2	45,631	30.8	44.2	10,903	30.2	14,310	34.6
1999	51,564	5.9	47.9	42,436	32.3	43.2	9,849	29.5	13,464	33.5
1998	55,426	6.1	46.8	45,765	34.4	41.1	10,709	28.3	14,955	34.1
1997	53,027	6.4	46.3	44,716	34.1	41.0	10,577	29.2	14,109	33.1
1996	53,731	7.0	44.0	45,694	34.7	39.6	10,523	28.3	15,415	32.5
1995	38,579	6.9	43.1	31,410	34.5	39.7	739	25.8	10,433	31.7

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 16C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Maternal Health Indicators**

Summary of Trends in Maternal Health Indicators (2)										
Year	Pregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
	Number	%	%	Number	%	%	Number	%	Number	%
1994	53,190	7.0	42.2	44,361	35.2	38.9	9,951	26.4	14,862	27.3
1993	0	*	*	0	*	*	0	*	0	*
1992	17,626	7.6	40.3	15,282	50.9	29.4	6,781	19.6	8,106	21.4
1991	4,964	6.9	40.4	3,212	46.9	30.1	317	21.5	794	21.5
1990	515	9.1	36.1	2	*	*	6	*	0	*
1989	0	*	*	0	*	*	0	*	0	*
1988	0	*	*	0	*	*	0	*	0	*
1987	0	*	*	0	*	*	0	*	0	*
1986	0	*	*	0	*	*	0	*	0	*
1985	0	*	*	0	*	*	0	*	0	*
1984	0	*	*	0	*	*	0	*	0	*
1983	419	7.9	25.8	0	*	*	151	24.5	13	*

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 17C**  
**2009 Pregnancy Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**  
**Summary of Trends in Maternal Behavioral Indicators**

<b>Summary of Trends in Maternal Behavioral Indicators</b> <sup>(2)</sup>					
Year	Medical Care			WIC Enrollment	
	1st Trimester		No Care	1st Trimester	
	Number	%	%	Number	%
2009	58,275	86.8	1.0	68,253	32.5
2008	57,594	79.4	5.8	66,585	32.0
2007	57,142	75.2	10.2	62,874	32.3
2006	54,154	74.6	10.4	59,555	33.7
2005	57,333	74.8	10.3	62,630	32.6
2004	56,142	74.1	10.7	61,767	31.3
2003	53,408	74.3	10.4	58,592	31.7
2002	51,532	73.8	10.5	56,964	32.3
2001	52,785	72.6	10.8	58,587	30.8
2000	52,989	71.9	11.2	59,332	31.0
1999	48,354	72.3	10.9	55,040	31.3
1998	52,821	72.5	11.1	59,429	31.3
1997	53,601	68.6	15.1	56,551	28.2
1996	55,003	68.4	16.0	57,285	28.4
1995	38,526	68.3	17.3	4,392	37.2
1994	52,540	68.9	15.9	56,451	27.3
1993	0	*	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 17C**  
**2009 Pregnancy Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**  
**Summary of Trends in Maternal Behavioral Indicators**

Summary of Trends in Maternal Behavioral Indicators <sup>(2)</sup>					
Year	Medical Care			WIC Enrollment	
	1st Trimester		No Care	1st Trimester	
	Number	%	%	Number	%
1992	25,272	62.9	20.4	17,934	21.6
1991	3,475	66.7	17.4	5,150	2.2
1990	2	*	*	89	*
1989	0	*	*	0	*
1988	0	*	*	0	*
1987	0	*	*	0	*
1986	0	*	*	0	*
1985	0	*	*	0	*
1984	0	*	*	0	*
1983	0	*	*	453	4.2

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 18C**  
**2009 Pregnancy Nutrition Surveillance**  
**Michigan**  
**Summary of Trends in Smoking Indicators**

(1)

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Summary of Trends in Smoking Indicators (2)										
Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	%	Number	%		Number	%	Number	%	
2009	54,868	35.8	59,246	19.3	14,749	35.2	32,394	17.0	54,663	6.5
2008	54,010	36.3	55,045	22.8	8,423	32.1	1,883	13.6	6,120	6.2
2007	57,504	36.5	48,873	19.6	13,240	34.0	0	*	0	*
2006	55,239	37.3	46,997	20.9	13,327	33.0	0	*	0	*
2005	57,338	38.1	50,206	21.6	14,035	31.1	0	*	0	*
2004	55,289	39.5	48,543	23.0	14,091	30.2	0	*	0	*
2003	52,553	39.6	45,315	23.1	13,107	30.5	0	*	0	*
2002	50,060	41.5	42,894	24.4	12,886	29.5	0	*	0	*
2001	49,929	43.3	41,825	25.6	12,853	29.3	0	*	0	*
2000	48,546	44.4	42,095	26.9	12,808	27.4	0	*	0	*
1999	42,774	45.6	37,486	27.1	11,817	27.9	0	*	0	*
1998	44,293	46.0	39,259	29.4	12,584	25.2	0	*	0	*
1997	43,106	44.4	38,286	29.2	12,134	25.2	0	*	0	*
1996	44,508	44.1	39,708	29.5	12,537	23.7	0	*	0	*
1995	33,102	44.8	27,876	29.9	9,290	24.4	0	*	0	*
1994	45,652	44.8	29,284	29.7	8,990	24.3	0	*	0	*
1993	0	*	0	*	0	*	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Among women who smoked 3 months prior to pregnancy.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 18C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Smoking Indicators**

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Summary of Trends in Smoking Indicators (2)										
Year	Smoking		Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)	Smoking in Household						
	3 Months Prior to Pregnancy			Last 3 Months of Pregnancy		Prenatal	Postpartum			
	Number	%		Number	%					
1992	18,823	46.7	2,264	34.1	0	*	0	*		
1991	4,155	43.5	379	33.2	0	*	0	*		
1990	159	62.9	0	*	0	*	518	0.0	0	*
1989	0	*	0	*	0	*	0	*	0	*
1988	0	*	0	*	0	*	0	*	0	*
1987	0	*	0	*	0	*	0	*	0	*
1986	0	*	0	*	0	*	0	*	0	*
1985	0	*	0	*	0	*	0	*	0	*
1984	0	*	0	*	0	*	0	*	0	*
1983	0	*	0	*	0	*	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Among women who smoked 3 months prior to pregnancy.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 19C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Infant Health Indicators**

Summary of Trends in Infant Health Indicators (2)									
Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
	Low (3)		High (4)						
	Number	%	%	Number	%	Number	%	Number	%
2009	55,121	8.4	7.1	57,774	11.5	48,299	3.5	55,786	57.2
2008	53,086	8.2	7.5	56,971	4.7	50,198	6.5	53,917	54.7
2007	50,990	7.5	7.6	53,478	0.1	50,925	7.5	50,651	54.0
2006	48,784	7.7	7.6	51,359	0.1	48,730	7.7	49,713	52.0
2005	51,616	7.8	8.0	54,788	0.1	51,414	7.8	51,914	52.6
2004	50,805	7.7	8.3	53,814	0.1	50,617	7.7	50,837	50.5
2003	48,280	7.3	8.7	50,986	0.2	48,077	7.3	48,115	49.8
2002	46,356	7.2	8.6	48,916	0.2	46,177	7.2	45,739	49.3
2001	46,760	7.3	9.0	49,230	0.1	46,567	7.3	45,726	49.5
2000	48,538	7.1	9.0	50,944	0.2	48,399	7.1	46,885	46.9
1999	44,840	6.9	9.1	47,125	0.2	44,674	6.9	41,632	47.6
1998	48,000	7.3	9.3	50,889	0.2	47,842	7.3	44,301	46.5
1997	46,683	8.0	9.3	49,298	0.1	46,526	8.0	43,232	45.4
1996	48,557	7.9	9.0	50,513	0.1	48,419	7.9	44,021	44.2

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 19C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Infant Health Indicators**

Summary of Trends in Infant Health Indicators (2)									
Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
	Low (3)		High (4)						
	Number	%	%	Number	%	Number	%	Number	%
1995	34,379	8.0	9.5	0	*	0	*	30,011	44.9
1994	50,502	7.9	9.5	47,519	2.6	45,914	6.7	45,043	41.7
1993	0	*	*	0	*	0	*	0	*
1992	30,684	8.1	9.8	22,424	9.0	20,157	3.7	23,468	42.0
1991	3,175	6.0	11.5	3,152	9.0	2,805	3.4	2,734	54.0
1990	0	*	*	0	*	0	*	0	*
1989	0	*	*	0	*	0	*	0	*
1988	0	*	*	0	*	0	*	0	*
1987	0	*	*	0	*	0	*	0	*
1986	0	*	*	0	*	0	*	0	*
1985	0	*	*	0	*	0	*	0	*
1984	0	*	*	0	*	0	*	0	*
1983	495	7.9	4.6	462	15.4	391	3.1	19	*

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 20C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**

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**Summary of Trends in Maternal Health Indicators by Race/Ethnicity**

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity and Year		Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
White, Not Hispanic	2009	37,356	4.7	51.8	28,830	20.8	50.9	5,273	27.9	8,396	21.0
	2008	35,161	4.7	51.7	28,478	25.1	49.2	4,067	25.3	9,164	26.0
	2007	34,069	5.0	50.3	27,582	24.5	50.2	5,838	25.4	8,206	30.9
	2006	31,924	5.4	50.0	26,274	22.6	52.1	5,427	24.1	8,123	29.2
	2005	33,286	5.4	49.6	27,835	23.2	51.0	5,714	25.3	8,264	30.9
	2004	34,699	5.6	48.9	29,069	22.9	51.5	6,191	25.1	8,957	31.9
	2003	33,309	5.9	48.3	27,675	24.1	51.2	5,827	24.8	8,162	31.5
	2002	32,136	6.1	47.6	26,374	26.5	48.7	5,413	25.3	8,122	31.9
	2001	32,725	6.3	47.1	26,066	28.8	46.8	5,712	23.8	8,204	31.4
	2000	32,604	6.9	45.9	26,779	28.3	46.1	5,739	23.7	8,858	30.9
Black, Not Hispanic	2009	17,863	3.6	59.1	14,090	20.7	50.2	3,304	50.7	3,566	42.7
	2008	17,404	3.8	58.0	14,503	29.4	47.1	2,269	47.5	4,204	45.2
	2007	17,323	3.9	58.1	14,433	29.0	47.3	3,261	46.3	3,281	47.5
	2006	16,345	3.7	58.1	13,689	29.8	47.4	3,083	42.6	3,399	45.3
	2005	16,822	3.7	58.0	14,163	27.7	48.3	3,233	42.2	3,115	45.9
	2004	17,105	3.7	57.8	14,439	29.5	47.8	3,461	40.7	3,600	44.8
	2003	16,033	4.3	57.1	13,563	29.7	47.7	3,262	40.5	3,295	45.4
	2002	15,908	4.0	56.3	13,319	31.1	45.7	3,286	41.6	3,148	48.5
	2001	16,747	4.4	54.6	13,672	31.3	45.7	3,763	41.1	3,355	48.3
	2000	17,062	5.0	53.1	13,890	34.2	42.9	3,956	41.8	3,576	45.1

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 20C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**

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**Summary of Trends in Maternal Health Indicators by Race/Ethnicity**

<b>Summary of Trends in Maternal Health Indicators by Race/Ethnicity</b> (2)											
Race/Ethnicity and Year		Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
Hispanic	2009	6,617	2.4	59.4	5,141	28.5	40.8	796	37.1	1,153	28.1
	2008	6,415	2.5	57.1	5,361	33.6	38.5	534	33.0	1,290	34.5
	2007	6,705	2.6	55.7	5,675	32.8	40.0	815	33.5	1,361	40.3
	2006	6,500	2.6	56.2	5,474	31.5	40.9	833	29.3	1,664	37.3
	2005	6,734	2.7	54.4	5,795	31.3	40.6	947	29.1	1,425	36.4
	2004	5,796	2.6	54.6	5,001	32.5	39.6	776	27.1	1,573	32.4
	2003	5,529	2.9	53.6	4,753	34.2	38.8	819	26.6	1,575	34.7
	2002	5,217	3.5	51.6	4,434	36.1	36.1	781	25.9	1,602	34.9
	2001	5,420	3.9	50.2	4,449	34.7	37.0	878	23.7	1,643	37.0
	2000	5,050	4.0	49.9	4,194	34.0	37.8	1,018	22.9	1,655	32.5
American Indian/Alaska Native	2009	205	3.4	58.0	170	21.8	54.7	23	*	38	*
	2008	182	6.0	61.5	158	26.6	41.8	14	*	49	*
	2007	198	5.1	53.5	173	22.0	55.5	33	*	35	*
	2006	233	2.1	60.5	191	23.0	53.4	29	*	57	*
	2005	276	5.8	54.0	227	28.6	50.2	42	*	67	*
	2004	318	4.7	53.1	266	26.3	50.4	45	*	64	*
	2003	298	4.4	51.0	258	22.5	55.0	39	*	63	*
	2002	286	5.2	57.0	234	19.7	51.7	39	*	64	*
	2001	298	4.7	56.4	240	22.1	53.8	41	*	70	*
	2000	292	4.5	54.5	243	20.2	52.3	47	*	61	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 20C**  
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**Summary of Trends in Maternal Health Indicators by Race/Ethnicity**

<b>Summary of Trends in Maternal Health Indicators by Race/Ethnicity</b> (2)											
Race/Ethnicity and Year		Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
Asian/Pacific Islander	2009	1,055	9.9	27.7	781	32.5	30.6	160	32.5	225	25.3
	2008	989	9.7	28.2	823	40.9	27.0	124	31.5	288	30.9
	2007	906	11.3	29.1	755	36.3	27.7	183	32.8	219	29.2
	2006	977	10.0	31.4	804	39.6	28.5	174	27.0	205	31.7
	2005	998	9.8	25.2	841	42.6	27.5	185	30.3	223	30.9
	2004	955	9.5	27.1	781	39.4	28.6	170	28.8	254	31.9
	2003	871	11.9	24.5	711	38.3	29.5	164	27.4	223	31.4
	2002	686	13.7	24.8	567	39.3	27.0	144	25.7	181	32.6
	2001	635	12.4	22.5	508	40.6	27.0	149	26.8	203	32.5
	2000	632	13.9	19.6	525	42.3	26.5	143	24.5	160	29.4
Multiple Races	2009	1,669	3.8	50.6	1,298	21.6	52.6	274	44.2	353	31.4
	2008	1,378	3.7	52.0	1,104	23.5	51.7	145	40.0	331	37.8
	2007	1,162	3.4	52.7	927	24.3	50.9	177	35.6	287	30.7
	2006	1,098	4.8	50.3	917	24.0	52.1	169	31.4	251	34.3
	2005	0	*	*	0	*	*	0	*	0	*
	2004	0	*	*	0	*	*	0	*	0	*
	2003	0	*	*	0	*	*	0	*	0	*
	2002	0	*	*	0	*	*	0	*	0	*
	2001	0	*	*	0	*	*	0	*	0	*
	2000	0	*	*	0	*	*	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 20C**  
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**Summary of Trends in Maternal Health Indicators by Race/Ethnicity**

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity and Year		Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
All Other/Unknown	2009	6	*	*	2	*	*	2	*	3	*
	2008	1	*	*	1	*	*	0	*	1	*
	2007	0	*	*	0	*	*	0	*	0	*
	2006	5	*	*	3	*	*	0	*	0	*
	2005	1,817	4.6	51.1	1,697	24.9	49.2	162	34.6	692	31.9
	2004	0	*	*	0	*	*	0	*	0	*
	2003	0	*	*	0	*	*	0	*	0	*
	2002	0	*	*	0	*	*	0	*	0	*
	2001	0	*	*	0	*	*	0	*	0	*
	2000	0	*	*	0	*	*	0	*	0	*
Total All Race/Ethnic Groups	2009	64,771	4.2	54.2	50,312	21.8	49.4	9,832	36.8	13,734	27.6
	2008	61,530	4.3	53.7	50,428	27.5	47.1	7,153	33.4	15,327	32.4
	2007	60,363	4.5	52.9	49,545	26.9	47.9	10,307	33.0	13,389	35.9
	2006	57,082	4.6	52.7	47,352	26.1	49.1	9,715	30.6	13,699	34.4
	2005	59,933	4.7	52.1	50,558	25.8	48.6	10,283	31.2	13,786	35.0
	2004	58,873	4.8	51.7	49,556	26.0	48.9	10,643	30.4	14,448	35.1
	2003	56,040	5.2	51.0	46,960	26.9	48.6	10,111	30.1	13,318	35.4
	2002	54,233	5.4	50.3	44,928	28.9	46.3	9,663	30.9	13,117	36.3
	2001	55,825	5.6	49.4	44,935	30.2	45.3	10,543	30.0	13,475	36.3
	2000	55,640	6.1	48.2	45,631	30.8	44.2	10,903	30.2	14,310	34.6

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 21C**  
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**Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity**

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
White, Not Hispanic	2009	33,316	90.6	1.0	38,987	36.8
	2008	32,853	83.0	6.1	37,751	36.0
	2007	32,455	79.3	10.3	35,572	36.5
	2006	30,594	78.9	10.5	33,401	37.6
	2005	31,804	78.7	10.8	34,855	37.7
	2004	33,432	77.7	11.2	36,484	35.6
	2003	32,039	77.8	11.0	34,870	36.1
	2002	30,663	77.5	11.4	33,778	37.6
	2001	31,281	76.9	11.8	34,433	36.5
	2000	31,253	75.8	12.3	34,948	37.0
Black, Not Hispanic	2009	15,976	79.9	0.8	18,594	21.6
	2008	16,426	74.2	3.9	18,531	21.3
	2007	16,371	70.6	6.8	17,858	21.1
	2006	15,468	69.3	7.3	16,842	22.9
	2005	15,773	70.1	7.4	17,354	22.4
	2004	16,247	69.2	7.7	17,766	20.9
	2003	15,293	69.1	7.5	16,584	20.9
	2002	15,232	68.3	8.0	16,516	20.6
	2001	15,785	65.8	8.5	17,338	19.5
	2000	16,226	66.5	8.6	17,815	20.2

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.





**Table 21C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
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**Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity**

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
Hispanic	2009	6,335	85.2	1.2	7,153	39.8
	2008	5,947	75.1	9.4	7,118	40.0
	2007	6,149	66.2	19.1	7,071	39.4
	2006	5,936	65.9	18.4	6,889	40.4
	2005	6,252	66.7	16.7	7,159	37.1
	2004	5,247	65.9	16.8	6,202	35.5
	2003	4,962	67.2	15.9	5,931	36.4
	2002	4,701	67.6	13.6	5,662	35.0
	2001	4,836	67.4	12.3	5,853	31.0
	2000	4,650	64.4	13.1	5,605	27.9
American Indian/Alaska Native	2009	192	87.5	2.6	216	38.9
	2008	169	81.7	5.3	203	37.9
	2007	193	74.1	14.0	201	40.3
	2006	203	74.4	12.8	244	49.6
	2005	267	77.2	9.7	295	39.3
	2004	289	75.1	10.7	327	42.8
	2003	283	76.3	11.3	304	43.8
	2002	271	81.2	7.7	299	44.1
	2001	269	71.4	15.2	310	44.5
	2000	274	77.7	8.8	307	40.7

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 21C**  
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**Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity**

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
Asian/Pacific Islander	2009	948	86.0	0.8	1,131	27.7
	2008	921	77.4	4.0	1,060	25.2
	2007	879	74.7	7.3	938	25.3
	2006	918	77.6	7.2	1,005	29.6
	2005	969	72.4	9.3	1,052	27.5
	2004	885	74.5	9.0	988	27.1
	2003	831	73.6	7.7	903	23.5
	2002	665	73.7	6.6	709	21.4
	2001	614	67.8	8.3	653	20.5
	2000	586	70.1	8.4	657	22.4
Multiple Races	2009	1,502	84.0	1.2	1,734	34.3
	2008	1,278	76.4	8.1	1,842	30.8
	2007	1,094	73.5	11.8	1,234	38.0
	2006	1,030	73.2	11.4	1,169	38.8
	2005	0	*	*	0	*
	2004	0	*	*	0	*
	2003	0	*	*	0	*
	2002	0	*	*	0	*
	2001	0	*	*	0	*
	2000	0	*	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 21C**  
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**Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity**

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
All Other/Unknown	2009	6	*	*	438	1.6
	2008	0	*	*	80	*
	2007	1	*	*	0	*
	2006	5	*	*	5	*
	2005	2,268	74.6	5.8	1,915	16.8
	2004	42	*	*	0	*
	2003	0	*	*	0	*
	2002	0	*	*	0	*
	2001	0	*	*	0	*
	2000	0	*	*	0	*
Total All Race/Ethnic Groups	2009	58,275	86.8	1.0	68,253	32.5
	2008	57,594	79.4	5.8	66,585	32.0
	2007	57,142	75.2	10.2	62,874	32.3
	2006	54,154	74.6	10.4	59,555	33.7
	2005	57,333	74.8	10.3	62,630	32.6
	2004	56,142	74.1	10.7	61,767	31.3
	2003	53,408	74.3	10.4	58,592	31.7
	2002	51,532	73.8	10.5	56,964	32.3
	2001	52,785	72.6	10.8	58,587	30.8
	2000	52,989	71.9	11.2	59,332	31.0

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 22C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Smoking Indicators by Race/Ethnicity**

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Summary of Trends in Smoking Indicators by Race/Ethnicity (2)											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
White, Not Hispanic	2009	31,886	46.4	33,837	25.8	11,044	32.3	18,069	18.8	30,857	6.2
	2008	31,473	47.6	31,381	28.8	6,504	29.8	1,173	15.1	3,910	6.6
	2007	33,265	48.0	27,751	27.3	10,233	31.3	0	*	0	*
	2006	31,512	49.3	26,721	28.8	10,160	30.6	0	*	0	*
	2005	32,562	50.1	28,017	29.8	10,869	29.0	0	*	0	*
	2004	33,760	50.0	29,506	30.3	11,188	28.1	0	*	0	*
	2003	32,546	50.2	27,802	30.4	10,470	28.4	0	*	0	*
	2002	31,021	51.9	26,176	31.5	10,239	28.0	0	*	0	*
	2001	31,380	53.2	25,936	32.6	10,267	28.1	0	*	0	*
	2000	30,646	53.8	26,483	33.7	10,195	26.5	0	*	0	*
Black, Not Hispanic	2009	14,403	21.9	16,157	11.0	2,383	43.5	9,055	18.2	15,177	8.5
	2008	14,355	22.1	15,175	15.2	1,220	41.1	376	12.8	1,156	6.4
	2007	15,922	22.0	13,724	10.3	2,048	44.0	0	*	0	*
	2006	15,347	23.1	13,123	11.6	2,118	39.5	0	*	0	*
	2005	15,120	24.5	13,428	12.4	2,176	35.6	0	*	0	*
	2004	15,048	26.2	13,133	13.6	2,247	37.7	0	*	0	*
	2003	14,148	25.4	12,220	13.6	2,046	37.0	0	*	0	*
	2002	13,714	27.5	12,018	15.1	2,066	34.1	0	*	0	*
	2001	13,250	29.6	11,367	16.0	1,968	31.9	0	*	0	*
	2000	13,026	31.4	11,212	17.1	2,034	30.1	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 22C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Smoking Indicators by Race/Ethnicity**

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Summary of Trends in Smoking Indicators by Race/Ethnicity (2)											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Hispanic	2009	6,109	14.5	6,554	6.4	717	54.3	3,780	7.3	6,183	2.8
	2008	5,955	12.4	6,046	9.7	353	45.0	239	7.1	765	3.3
	2007	6,147	12.8	5,551	4.4	507	50.5	0	*	0	*
	2006	6,144	13.8	5,275	5.4	571	52.5	0	*	0	*
	2005	6,315	13.6	5,647	5.4	552	50.0	0	*	0	*
	2004	5,247	13.1	4,863	6.1	470	44.0	0	*	0	*
	2003	4,773	13.0	4,344	4.7	403	52.1	0	*	0	*
	2002	4,403	14.7	3,926	6.6	411	44.5	0	*	0	*
	2001	4,430	17.1	3,800	8.0	455	45.5	0	*	0	*
2000	4,094	18.4	3,715	9.9	425	36.2	0	*	0	*	
American Indian/Alaska Native	2009	175	52.6	191	34.6	55	*	67	*	140	5.7
	2008	170	59.4	169	30.8	39	*	4	*	8	*
	2007	198	58.1	175	32.0	86	*	0	*	0	*
	2006	227	55.5	187	33.2	83	*	0	*	0	*
	2005	272	60.7	237	32.9	118	33.1	0	*	0	*
	2004	317	61.2	258	39.9	139	25.2	0	*	0	*
	2003	293	59.7	255	41.2	130	21.5	0	*	0	*
	2002	297	69.0	240	40.4	133	33.8	0	*	0	*
	2001	287	69.7	239	45.2	135	22.2	0	*	0	*
2000	278	61.9	242	40.1	116	23.3	0	*	0	*	

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 22C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Smoking Indicators by Race/Ethnicity**

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Summary of Trends in Smoking Indicators by Race/Ethnicity (2)											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Asian/Pacific Islander	2009	856	7.6	971	4.0	49	*	570	5.3	907	3.0
	2008	799	5.9	872	6.9	20	*	27	*	120	3.3
	2007	823	7.7	736	3.1	37	*	0	*	0	*
	2006	904	7.0	754	3.2	39	*	0	*	0	*
	2005	907	8.5	831	2.4	45	*	0	*	0	*
	2004	880	10.3	744	3.8	47	*	0	*	0	*
	2003	793	11.0	694	4.8	58	*	0	*	0	*
	2002	625	10.1	534	5.4	37	*	0	*	0	*
	2001	582	10.3	483	4.3	28	*	0	*	0	*
2000	502	12.4	443	5.0	38	*	0	*	0	*	
Multiple Races	2009	1,438	43.9	1,529	24.6	501	32.5	852	18.8	1,392	8.9
	2008	1,258	45.0	1,402	34.7	287	32.8	64	*	161	8.7
	2007	1,148	46.6	935	26.3	329	31.6	0	*	0	*
	2006	1,100	45.3	935	26.3	355	29.6	0	*	0	*
	2005	0	*	0	*	0	*	0	*	0	*
	2004	0	*	0	*	0	*	0	*	0	*
	2003	0	*	0	*	0	*	0	*	0	*
	2002	0	*	0	*	0	*	0	*	0	*
	2001	0	*	0	*	0	*	0	*	0	*
	2000	0	*	0	*	0	*	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 22C**  
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**Michigan**  
**Summary of Trends in Smoking Indicators by Race/Ethnicity**

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Summary of Trends in Smoking Indicators by Race/Ethnicity (2)											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
All Other/Unknown	2009	1	*	7	*	0	*	1	*	7	*
	2008	0	*	0	*	0	*	0	*	0	*
	2007	1	*	1	*	0	*	0	*	0	*
	2006	5	*	2	*	1	*	0	*	0	*
	2005	2,162	35.1	2,046	20.9	275	33.1	0	*	0	*
	2004	37	*	39	*	0	*	0	*	0	*
	2003	0	*	0	*	0	*	0	*	0	*
	2002	0	*	0	*	0	*	0	*	0	*
	2001	0	*	0	*	0	*	0	*	0	*
	2000	0	*	0	*	0	*	0	*	0	*
Total All Race/Ethnic Groups	2009	54,868	35.8	59,246	19.3	14,749	35.2	32,394	17.0	54,663	6.5
	2008	54,010	36.3	55,045	22.8	8,423	32.1	1,883	13.6	6,120	6.2
	2007	57,504	36.5	48,873	19.6	13,240	34.0	0	*	0	*
	2006	55,239	37.3	46,997	20.9	13,327	33.0	0	*	0	*
	2005	57,338	38.1	50,206	21.6	14,035	31.1	0	*	0	*
	2004	55,289	39.5	48,543	23.0	14,091	30.2	0	*	0	*
	2003	52,553	39.6	45,315	23.1	13,107	30.5	0	*	0	*
	2002	50,060	41.5	42,894	24.4	12,886	29.5	0	*	0	*
	2001	49,929	43.3	41,825	25.6	12,853	29.3	0	*	0	*
	2000	48,546	44.4	42,095	26.9	12,808	27.4	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

**Table 23C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
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**Summary of Trends in Infant Health Indicators by Race/Ethnicity**

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
White, Not Hispanic	2009	31,295	7.0	8.5	32,698	10.3	27,844	2.8	31,700	62.5
	2008	30,105	6.9	9.0	32,132	4.5	28,556	5.3	30,412	59.9
	2007	28,757	6.3	9.1	30,008	0.1	28,718	6.3	28,549	58.8
	2006	27,459	6.4	9.1	28,762	0.1	27,431	6.4	27,802	56.2
	2005	28,526	6.4	9.3	30,092	0.1	28,437	6.4	28,697	56.2
	2004	30,091	6.4	9.7	31,747	0.1	29,985	6.4	30,133	54.8
	2003	28,803	6.1	10.1	30,250	0.1	28,692	6.1	28,624	54.0
	2002	27,380	6.0	10.0	28,822	0.2	27,265	6.0	26,944	54.0
	2001	27,339	6.0	10.8	28,783	0.1	27,229	6.0	26,653	54.7
	2000	28,837	5.7	10.8	30,142	0.2	28,753	5.7	27,837	51.9
Black, Not Hispanic	2009	15,165	12.4	4.0	15,776	14.8	12,785	5.5	15,254	42.8
	2008	14,974	11.7	4.2	15,957	5.2	14,087	9.7	15,194	39.7
	2007	14,651	10.8	4.4	15,343	0.1	14,631	10.7	14,429	38.6
	2006	13,934	11.3	4.5	14,595	0.2	13,913	11.3	14,165	37.4
	2005	14,123	11.2	5.0	14,960	0.1	14,061	11.2	13,952	37.6
	2004	14,627	11.5	5.2	15,423	0.2	14,562	11.5	14,357	35.9
	2003	13,693	10.5	5.6	14,494	0.2	13,632	10.5	13,521	35.2
	2002	13,568	10.6	5.4	14,275	0.2	13,521	10.6	13,218	34.7
	2001	13,929	10.8	5.4	14,616	0.2	13,869	10.7	13,490	33.6
	2000	14,351	10.3	5.4	15,077	0.2	14,310	10.3	13,692	32.4

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.





**Table 23C**  
**2009 Pregnancy Nutrition Surveillance** (1)  
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**Summary of Trends in Infant Health Indicators by Race/Ethnicity**

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Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
Hispanic	2009	6,045	5.8	7.8	6,339	10.4	5,349	2.5	6,167	63.8
	2008	5,783	5.7	8.4	6,285	4.8	5,450	4.5	6,016	63.9
	2007	5,680	5.1	8.1	6,130	0.0	5,678	5.1	5,778	65.9
	2006	5,460	5.2	8.8	5,955	0.2	5,457	5.2	5,776	65.5
	2005	5,734	5.5	9.2	6,258	0.1	5,708	5.5	5,948	66.5
	2004	5,034	4.8	9.0	5,482	0.1	5,019	4.8	5,232	63.8
	2003	4,811	5.0	9.6	5,205	0.2	4,786	5.0	4,983	64.8
	2002	4,599	4.8	9.1	4,953	0.2	4,585	4.8	4,749	62.3
	2001	4,745	5.1	9.3	5,022	0.1	4,727	5.1	4,827	64.7
	2000	4,565	5.6	9.2	4,890	0.2	4,555	5.6	4,584	60.0
American Indian/Alaska Native	2009	176	7.4	10.2	187	9.1	158	4.4	178	59.6
	2008	162	4.9	11.7	176	2.3	157	3.2	167	53.9
	2007	179	6.7	16.2	181	0.0	179	6.7	173	63.6
	2006	193	4.1	8.8	199	0.0	193	4.1	192	51.6
	2005	240	7.9	14.6	249	0.0	238	8.0	238	59.7
	2004	269	7.8	14.1	280	0.0	269	7.8	273	49.5
	2003	262	3.8	12.6	269	0.0	261	3.8	256	50.4
	2002	236	4.2	16.1	250	0.0	236	4.2	238	55.0
	2001	238	4.6	13.0	250	0.8	236	4.7	238	47.9
	2000	252	7.1	15.1	263	0.4	251	7.2	244	51.6

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



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**2009 Pregnancy Nutrition Surveillance** (1)

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**Michigan**  
**Summary of Trends in Infant Health Indicators by Race/Ethnicity**

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
Asian/Pacific Islander	2009	889	8.7	4.0	944	10.0	799	5.0	905	68.5
	2008	837	5.9	4.1	922	3.9	801	4.9	876	65.5
	2007	783	6.9	4.5	821	0.4	780	6.9	787	67.5
	2006	792	7.7	4.5	857	0.1	791	7.7	826	64.0
	2005	854	6.8	4.3	925	0.3	845	6.9	892	61.7
	2004	749	7.9	7.2	832	0.1	747	7.9	795	60.0
	2003	711	7.7	4.8	768	0.4	706	7.8	731	58.4
	2002	573	6.3	6.1	616	0.2	570	6.3	590	56.3
	2001	509	8.1	5.9	559	0.4	506	7.9	518	55.8
	2000	533	5.1	5.4	572	0.2	530	5.1	528	49.4
Multiple Races	2009	1,406	8.4	7.6	1,476	10.8	1,242	3.9	1,418	58.0
	2008	1,178	8.6	7.0	1,423	4.4	1,116	6.6	1,193	57.5
	2007	940	6.1	8.7	995	0.4	939	6.1	935	59.9
	2006	943	7.0	8.9	988	0.5	942	7.0	949	56.4
	2005	0	*	*	0	*	0	*	0	*
	2004	0	*	*	0	*	0	*	0	*
	2003	0	*	*	0	*	0	*	0	*
	2002	0	*	*	0	*	0	*	0	*
	2001	0	*	*	0	*	0	*	0	*
	2000	0	*	*	0	*	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.



**Table 23C**  
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**Summary of Trends in Infant Health Indicators by Race/Ethnicity**

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
All Other/Unknown	2009	145	10.3	6.9	354	7.1	122	1.6	164	57.9
	2008	47	*	*	76	*	31	*	59	*
	2007	0	*	*	0	*	0	*	0	*
	2006	3	*	*	3	*	3	*	3	*
	2005	2,139	10.5	7.6	2,304	0.1	2,125	10.5	2,187	58.2
	2004	35	*	*	50	*	35	*	47	*
	2003	0	*	*	0	*	0	*	0	*
	2002	0	*	*	0	*	0	*	0	*
	2001	0	*	*	0	*	0	*	0	*
	2000	0	*	*	0	*	0	*	0	*
Total All Race/Ethnic Groups	2009	55,121	8.4	7.1	57,774	11.5	48,299	3.5	55,786	57.2
	2008	53,086	8.2	7.5	56,971	4.7	50,198	6.5	53,917	54.7
	2007	50,990	7.5	7.6	53,478	0.1	50,925	7.5	50,651	54.0
	2006	48,784	7.7	7.6	51,359	0.1	48,730	7.7	49,713	52.0
	2005	51,616	7.8	8.0	54,788	0.1	51,414	7.8	51,914	52.6
	2004	50,805	7.7	8.3	53,814	0.1	50,617	7.7	50,837	50.5
	2003	48,280	7.3	8.7	50,986	0.2	48,077	7.3	48,115	49.8
	2002	46,356	7.2	8.6	48,916	0.2	46,177	7.2	45,739	49.3
	2001	46,760	7.3	9.0	49,230	0.1	46,567	7.3	45,726	49.5
	2000	48,538	7.1	9.0	50,944	0.2	48,399	7.1	46,885	46.9

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

